PATENT COOPERATION TREATY

PCT

Translation INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or a	igent's file reference	ce							
P04694000			OR FURTHER ACTIO	N	See Form PCT/IPEA/416				
International application No.			rnational filing date (day	v/month/year)	Priority date (day/month/year)				
			0.01.2004		21.01.2003				
B25J 9 Applicant	/06	HA YASKAV	classification and IPC						
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 									
	2. This REPORT consists of a total of 4 sheets, including this cover sheet.								
3. This	report is also accor	mpanied by ANNE	XES, comprising:						
a. [2	(sent to the	applicant and to th	e International Bureau)	a total of 17	sheets, as follows:				
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.									
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))									
	related therete Section 802 o	o, in computer readfithe Administrativ	dable form only, as indice Instructions).	cated in the Supp	, containing a sequence listing and/or tables lemental Box Relating to Sequence Listing (see				
4. This	····		the following items:						
\boxtimes	Box No. I Basis of the report								
\Box									
\Box									
一	The same and the same and the same and the same and the same applicability								
\boxtimes	Box No. IV Lack of unity of invention Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
	Box No. VI Certain documents cited								
Box No. VII Certain defects in the international application									
Box No. VIII Certain observations on the international application									
Date of submi	ssion of the deman								
Date of Subfill	salon of the deman	u	Date	of completion of	this report				
Name and mai	ling address of the	PIPEA/	Auth	orized officer	 				
Facsimile No.			Tele	Telephone No.					

Form PCT/IPEA/409 (cover sheet) (January 2004)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/000464

1. With regard to the language, this report is based on the international application in the language in which it was filed, unles indicated under this item.	ss otherwise
This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:	,
international search (Rule 12.3 and 23.1(b))	
publication of the international application (Rule 12.4)	
international preliminary examination (Rule 55.2 and/or 55.3)	
With regard to the elements of the international application, this report is based on (replacement sheets which have been preceiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are this report):	furnished to the not annexed to
the international application as originally filed/furnished	
the description:	
pages 1, 7 as originally f	filed/furnished
pages* 2-6, 8-10 received by this Authority on 20-08-2004	
pages* received by this Authority on	
the claims:	
nosas originally f	filed/furnished
nos.* as amended (together with any statement) un	
nos.* 1-6 received by this Authority on 20-08-2004	and Thirties 17
nos.* received by this Authority on	
the drawings:	
sheets _ 5 , 6 , 8 , 9	filed/furnished
sheets* 1-4, 7, 10 received by this Authority on 20-08-2004	inca fai msnea
sheets* received by this Authority on	
a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.	
3. The amendments have resulted in the cancellation of:	
the description, pages	
the claims, nos.	
the sequence listing (specify): any table(s) related to sequence listing (specify):	
any table(s) related to sequence listing (specify): 4. This report has been established as if (some of) the amendments annexed to this report and listed below had not be they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).	
the description, pages	
	· · · · · · · · · · · · · · · · · · ·
the drawings, sheets/figs	
the sequence listing (specify):	
* If item 4 applies, some or all of those sheets may be marked "superseded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/000464

Box	No. V Reasoned statement citations and explain	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statement						
	Novelty (N)	Claims	1-6	YES			
		Claims		NO			
	Inventive step (IS)			YES			
		Claims	1-6	NO			
	Industrial applicability (IA)	Claims	1-6	YES			
		Claims		NO			
I							

2. Citations and explanations (Rule 70.7)

The inventions set forth in claims 1-3

Document 1 (JP 58-177282 A (Mitsubishi Electric Corp.)) and document 2 (JP 59-64283 A (Mitsubishi Electric Corp.)) cited in the international search report disclose devices with a large gear and a small gear. Although the amount of backlash is not specifically made clear, from the positioning of the large gear and the small gear, it appears that when the device is tilted, the large gear and the small gear receive a force in an approaching direction, thereby making the amount of backlash less.

Therefore, the inventions set forth in claims 1-3 do not involve an inventive step in the light of documents 1 and 2.

The inventions set forth in claims 4-6

The specifics of the gear columns and gear through-holes in the inventions described in documents 1 and 2 are not made clear, but the matter of the configuration of the gear columns and the gear through-holes is one of design that can be appropriately achieved.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/000464

F	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
		Therefo	ore, the	inver	ntions	s set f	orth i	n cla	ims $4-6$	do
	not	involve	an inve	ntive	step	in the	light	of d	ocument	s 1
	and	2.								
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